

PROPOSED AMENDMENT
App. No. 09/717,332
Examiner Hirl
Art Unit 2121

PROPOSED CLAIMS

Applicant proposes the following new claims.

1. (New) A computerized system for acquisition of a discrete set of decision alternatives evaluated according to multiple evaluation criteria, and for the exploration of said set of decision alternatives, and for selection among said set of decision alternatives, based on said evaluation criteria comprising:
 - a seeker software process for producing a plurality of decision alternatives wherein each decision alternative is evaluated according to a plurality of evaluation criteria, and wherein said seeker software process uses a compositional modeling language and corresponding simulator to generate said discrete set of decision alternatives and evaluate them according to said evaluation criteria using simulations;
 - a filter software process for producing a subset of decision alternatives from among said decision alternatives produced by said seeker software process by comparing each decision alternative to other decision alternatives and excluding decision alternatives that are inferior according to any rule or procedure; and
 - a viewer software process for enabling examination and comparison of decision alternatives in said subset of decision alternatives according to said evaluation criteria, including examination of tradeoffs among said decision alternatives in said subset of decision alternatives, and enabling successive narrowing of decision alternatives in said subset of decision alternatives.

PROPOSED AMENDMENT
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2. (New) A computerized system for exploring a discrete set of decision candidates comprising:

a seeker software process for producing a set of evaluated decision candidates wherein each of a plurality of decision candidates is composed using a plurality of components that are combined to create a decision candidate within said discrete set of decision candidates and wherein each of said plurality of decision candidates is evaluated according to each of at least two evaluation criteria;

a filter software process for producing a set of filtered decision candidates from said set of evaluated decision candidates by comparing values of said at least two evaluation criteria from each decision candidate with values of said at least two evaluation criteria from other decision candidates and using a form of dominance with respect to said values of said at least two evaluation criteria to exclude from said set of evaluated decision candidates each decision candidate that is inferior to any other decision candidate according to values of said at least two evaluation criteria such that said set of filtered decision candidates contains only decision candidates that are tradeoffs with respect to each other; and

a viewer software process for displaying on a graphical display said filtered decision candidates in a plurality of linked scatterplots wherein each axis of each scatterplot represents an evaluation criterion of said filtered decision

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candidates and each point on each scatterplot represents a filtered decision candidate that survived said filter software process for producing a set of filtered decision candidates from said evaluated decision candidates and represents a tradeoff within said discrete set of decision candidates such that no filtered decision candidate is superior to any other filtered decision candidate in relation to all of said evaluation criteria.